

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,876

DATE: 09/20/2001
TIME: 14:49:26

Input Set : A:\ES.txt
Output Set: N:\CRF3\09202001\I900876.raw

3 <110> APPLICANT: WATANABE, KATSUJI
 4 OKUDA, MITSURU
 6 <120> TITLE OF INVENTION: METHOD AND SYSTEM FOR SEARCHING FOR RELATIONSHIPS BETWEEN
 BASE SEQUENCES
 7 IN GENES
 9 <130> FILE REFERENCE: 210847US0X
 11 <140> CURRENT APPLICATION NUMBER: 09/900,876
 12 <141> CURRENT FILING DATE: 2001-07-10
 14 <150> PRIOR APPLICATION NUMBER: JP 2000-215134
 15 <151> PRIOR FILING DATE: 2000-07-14
 17 <160> NUMBER OF SEQ ID NOS: 4
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 1009
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Rhodospirillum salexigens
 26 <220> FEATURE:
 27 <221> NAME/KEY: misc_feature /
 28 <222> LOCATION: (50)..(51)
 29 <223> OTHER INFORMATION: n = c, g, a, or t
 32 <220> FEATURE:
 33 <221> NAME/KEY: misc_feature /
 34 <222> LOCATION: (63)..(63)
 35 <223> OTHER INFORMATION: n = c, g, a, or t
 38 <220> FEATURE:
 39 <221> NAME/KEY: misc_feature /
 40 <222> LOCATION: (463)..(463)
 41 <223> OTHER INFORMATION: n = c, g, a, or t
 44 <220> FEATURE:
 45 <221> NAME/KEY: misc_feature /
 46 <222> LOCATION: (468)..(468)
 47 <223> OTHER INFORMATION: n = c, g, a, or t
 50 <220> FEATURE:
 51 <221> NAME/KEY: misc_feature /
 52 <222> LOCATION: (574)..(574)
 53 <223> OTHER INFORMATION: n = c, g, a, or t
 56 <220> FEATURE:
 57 <221> NAME/KEY: misc_feature /
 58 <222> LOCATION: (687)..(687)
 59 <223> OTHER INFORMATION: n = c, g, a, or t
 62 <220> FEATURE:
 63 <221> NAME/KEY: misc_feature /
 64 <222> LOCATION: (806)..(806)
 65 <223> OTHER INFORMATION: n = c, g, a, or t
 68 <220> FEATURE:
 69 <221> NAME/KEY: misc_feature /
 70 <222> LOCATION: (853)..(854)
 71 <223> OTHER INFORMATION: n = c, g, a, or t

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,876

DATE: 09/20/2001
TIME: 14:49:26

Input Set : A:\ES.txt
Output Set: N:\CRF3\09202001\I900876.raw

74 <220> FEATURE:
 75 <221> NAME/KEY: misc_feature
 76 <222> LOCATION: (888)..(889)
 77 <223> OTHER INFORMATION: n = c, g, a, or t
 80 <220> FEATURE:
 81 <221> NAME/KEY: misc_feature
 82 <222> LOCATION: (966)..(966)
 83 <223> OTHER INFORMATION: n = c, g, a, or t
 86 <400> SEQUENCE: 1
 W--> 87 gctcagaacg aacgctggcg gcaggcctaa cacatcaag tcgagcgcan nccttcgggg 60
 W--> 89 gttagccgcg gacgggttag taacgcgtgg gaacctgctc agggctctgg gataactgct 120
 91 gaaaacggca gctaataccg gatacgcgtt attggaaag aaattcggcc ttggatggc 180
 93 cccgcgttggta tagctatggtggtaa cggcctacca tggcgtacat ccatacgctgg 240
 95 tttagagggat tgatcagcca cactggact gagacacggc ccagactcct acgggaggca 300
 97 gcaagtggggat atcttagaca atgggggcaa ccctgatcta gccatggcgtt gtgagtgtatg 360
 99 aaggcccttag ggttgtaaag ctctttcagc agggaaagata atgactgtac ctgcagaaga 420
 W-> 101 agctccggct aactccgtgc cagcagccgc ggtaatacgg agnnggcniag cgttgttcgg 480
 103 aattactggg cgtaaaagcgc gcgttaggcgg atcggctagt tgggggtgaa agcccccggc 540
 W-> 105 tcaacctcggtt aactgccctc aaaactaccg atcnagagtt cgggagaggt aagcggatt 600
 107 cccagtgttag aggtgaaatt cgtagatatt gggaaagaaca ccagtggcga agggccgtta 660
 W--> 109 ctggaccgat actgacgctg aggtgcnaaa gcgtggggag caaacaggat tagataccct 720
 111 gtagtccac gccgtaaacg atgggtgtca gatgtcgggg ctcttagagt ttcggtatcg 780
 W--> 113 cagctaaccgc attaaccgc accggccnnggg agtaacggccg caaggtaaa actcaaagga 840
 W--> 115 attgacgggg gcnnncacaa gcggtggagc atgtgggtta attcgaanna acgcgcagaa 900
 117 ctttaccacgc tcttgacatc ccgggacgac ttccagagat ggattttttc acttcgggtga 960
 W--> 119 cccggnacac ggtgctgcgtt ggctgtcgcc agctcgtgtc gtgagatgt 1009
 122 <210> SEQ ID NO: 2
 123 <211> LENGTH: 1490
 124 <212> TYPE: DNA
 125 <213> ORGANISM: Rhodospirillum salexigens
 127 <220> FEATURE:
 128 <221> NAME/KEY: misc_feature
 129 <222> LOCATION: (1)..(1)
 130 <223> OTHER INFORMATION: n = c, g, a, or t
 133 <220> FEATURE:
 134 <221> NAME/KEY: misc_feature
 135 <222> LOCATION: (72)..(73)
 136 <223> OTHER INFORMATION: n = c, g, a, or t
 139 <220> FEATURE:
 140 <221> NAME/KEY: misc_feature
 141 <222> LOCATION: (85)..(85)
 142 <223> OTHER INFORMATION: n = c, g, a, or t
 145 <220> FEATURE:
 146 <221> NAME/KEY: misc_feature
 147 <222> LOCATION: (485)..(485)
 148 <223> OTHER INFORMATION: n = c, g, a, or t
 151 <220> FEATURE:
 152 <221> NAME/KEY: misc_feature
 153 <222> LOCATION: (490)..(490)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,876

DATE: 09/20/2001
TIME: 14:49:26

Input Set : A:\ES.txt
Output Set: N:\CRF3\09202001\I900876.raw

154 <223> OTHER INFORMATION: n = c, g, a, or t
 157 <220> FEATURE:
 158 <221> NAME/KEY: misc_feature
 159 <222> LOCATION: (596)..(596) /
 160 <223> OTHER INFORMATION: n = c, g, a, or t
 163 <220> FEATURE:
 164 <221> NAME/KEY: misc_feature /
 165 <222> LOCATION: (709)..(709)
 166 <223> OTHER INFORMATION: n = c, g, a, or t
 169 <220> FEATURE:
 170 <221> NAME/KEY: misc_feature /
 171 <222> LOCATION: (828)..(828)
 172 <223> OTHER INFORMATION: n = c, g, a, or t
 175 <220> FEATURE:
 176 <221> NAME/KEY: misc_feature /
 177 <222> LOCATION: (875)..(876)
 178 <223> OTHER INFORMATION: n = c, g, a, or t
 181 <220> FEATURE:
 182 <221> NAME/KEY: misc_feature /
 183 <222> LOCATION: (910)..(911)
 184 <223> OTHER INFORMATION: n = c, g, a, or t
 187 <220> FEATURE:
 188 <221> NAME/KEY: misc_feature /
 189 <222> LOCATION: (988)..(988)
 190 <223> OTHER INFORMATION: n = c, g, a, or t
 193 <220> FEATURE:
 194 <221> NAME/KEY: misc_feature /
 195 <222> LOCATION: (1045)..(1045)
 196 <223> OTHER INFORMATION: n = c, g, a, or t
 199 <220> FEATURE:
 200 <221> NAME/KEY: misc_feature /
 201 <222> LOCATION: (1332)..(1333)
 202 <223> OTHER INFORMATION: n = c, g, a, or t
 205 <220> FEATURE:
 206 <221> NAME/KEY: misc_feature /
 207 <222> LOCATION: (1408)..(1408)
 208 <223> OTHER INFORMATION: n = c, g, a, or t
 211 <220> FEATURE:
 212 <221> NAME/KEY: misc_feature /
 213 <222> LOCATION: (1437)..(1442)
 214 <223> OTHER INFORMATION: n = c, g, a, or t /
 217 <220> FEATURE:
 218 <221> NAME/KEY: misc_feature /
 219 <222> LOCATION: (1451)..(1475)
 220 <223> OTHER INFORMATION: n = c, g, a, or t
 223 <400> SEQUENCE: 2
 W--> 224 ncaacatgag agtttgatcc tggctcagaa cgaacgctgg cggcaggcct aacacatgca 60
 W--> 226 agtcgagcgc anncttcgg gggtnagcgg cggacgggtg agtaacgcgt gggAACCTGC 120
 228 tcagggctct gggataactg ctggaaaacgg cagctaatac cggataacgcc gtattggaa 180

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,876

DATE: 09/20/2001
TIME: 14:49:26

Input Set : A:\ES.txt
Output Set: N:\CRF3\09202001\I900876.raw

230	agaaaattcgg	ccttggatgg	gcccgcgtt	gattagctag	atggtggggt	aacggcctac	240
232	catggcgacg	atccatagct	ggtttgagag	gatgatcagc	cacactggga	ctgagacacg	300
234	gcccagactc	ctacgggagg	cagcagtggg	gaatctaga	caatggggc	aaccctgatc	360
236	tagccatgcc	gcgtgagtga	tgaaggccct	agggttgtaa	agctcttca	gcagggaaaga	420
238	taatgactgt	acctgcagaa	gaagctccgg	ctaactccgt	gccagcagcc	gcgtaatac	480
W--> 240	<u>ggaghgggcn</u>	<u>agcgttgttc</u>	<u>ggaattactg</u>	<u>ggcgtaaagc</u>	<u>gcgcgttaggc</u>	<u>ggatcggtca</u>	540
W--> 242	<u>gttgggggtg</u>	<u>aaagccccggg</u>	<u>gctcaacctc</u>	<u>ggaactgc</u>	<u>ccccactac</u>	<u>cgatcnagag</u>	600
244	ttcgggagag	gtAACCGGAA	ttcccagtgt	agaggtgaaa	ttcgttagata	ttgggaagaa	660
W--> 246	<u>caccagtggc</u>	<u>gaaggcggct</u>	<u>tactggaccc</u>	<u>atactgacgc</u>	<u>tgaggtgcna</u>	<u>aagcgtgggg</u>	720
248	agcaaacagg	attagatacc	ctggtagtcc	acgcgtaaa	cgatgggtgc	tagatgtcg	780
W--> 250	<u>ggctttaga</u>	<u>gtttcggtat</u>	<u>cgcagctaac</u>	<u>gcattaagca</u>	<u>ccccgcncng</u>	<u>ggagtacggc</u>	840
W--> 252	<u>cgcaagggtt</u>	<u>aaactcaaag</u>	<u>gaattgacgg</u>	<u>gggcnnngcac</u>	<u>aagcgttggga</u>	<u>gcatgtggtt</u>	900
W--> 254	taattcgaan	naacgcgcag	aaccttacca	gctttgaca	tcccgggacg	acttccagag	960
W--> 256	atggatttt	tcacttcgg	gaccggng	caggtgtgc	atggctgtcg	tcagctcg	1020
W--> 258	tcgtgagatg	ttgggat	tcccncaacg	agcgaaccc	tcgcccctt	ttgccagcat	1080
260	ttgggtgggg	actctaaggg	aaactgcgt	gataagccgg	aggaagggtgg	ggatgacgtc	1140
262	aagtccat	ggcccttatg	ggctggcata	cacacgtgt	acaatggcgg	tgacagaggg	1200
264	cagcgagcct	gcgagggtga	gcaatctct	aaaagccgtc	tcagttcgg	ttgttctctg	1260
266	caactcgaga	gcataaagg	ggaatcgct	gtaatgcgg	atcagcatgc	cgcggtgaat	1320
W--> 268	acgttccccc	gnnttgtaca	caccggccgt	cacaccatgg	gagttgggtt	gaccgcaga	1380
W--> 270	<u>cggtgagcta</u>	<u>acccgaaagg</u>	<u>ggggcagn</u>	<u>gccacggtca</u>	<u>ggtcagcgac</u>	<u>tgggtnnnn</u>	1440
W--> 272	<u>nngtaacaag</u>	<u>nnnnnnnnnn</u>	<u>nnnnnnnnnn</u>	<u>nnnnngatca</u>	<u>cctccttct</u>		1490
275	<210>	SEQ ID NO:	3				
276	<211>	LENGTH:	19				
277	<212>	TYPE:	DNA				
278	<213>	ORGANISM:	Artificial Sequence				
280	<220>	FEATURE:					
281	<223>	OTHER INFORMATION:	Synthetic DNA				
283	<400>	SEQUENCE:	3				
284	gtcagat	aaactcggcg					19
287	<210>	SEQ ID NO:	4				
288	<211>	LENGTH:	20				
289	<212>	TYPE:	DNA				
290	<213>	ORGANISM:	Artificial Sequence				
292	<220>	FEATURE:					
293	<223>	OTHER INFORMATION:	Synthetic DNA				
295	<400>	SEQUENCE:	4				
296	acatttcaca	acacgagctg					20

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/900,876

DATE: 09/20/2001
TIME: 14:49:27

Input Set : A:\ES.txt
Output Set: N:\CRF3\09202001\I900876.raw

L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2